

SOP 29 – M/C 3523 Autoclave

Small Autoclave in L20 & L11C at DBNRRC

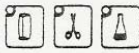
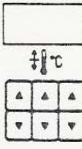
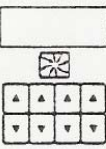
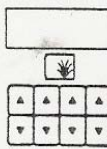







EQUIPMENT:

- M/C 3523 Gravity/Laboratory Sterilizer
- Gallon jug of tap water
- Items to be sterilized
- Heat protective gloves and face shield
- Autoclave Indicator tape

PROCEDURE:

1. Press the Controls “On” switch.
2. Open the Control (or designated “Load”) End door.
3. Load the sterilizer, then close the door.
4. Select processing cycle (refer to time and temperature chart).
5. Select exposure temperature (refer to time and temperature chart).
6. Select exposure time (refer to time and temperature chart).
7. Select exhaust (drying), (refer to time and temperature chart).
8. Press the Cycle Start switch to begin the automatic processing cycle.
9. Once the processing cycle begins, the following will occur automatically:
 - The ready indicator will go out and the conditioning phase indicator will come on.
 - When the selected exposure temperature is reached, the conditioning phase indicator will go out and the exposure phase indicator will come on.
 - When the phase timer displays 00:00, the exposure phase indicator light will then go out and the exhaust phase indicator will come on.
 - When the phase timer displays 00:00, the drying time is complete. The exhaust phase indicator will then go out and the complete indicator will come on. If no drying time was selected, the exhaust phase indicator will go out after the steam is removed from the chamber.
 - When the complete indicator comes on, a buzzer will sound to alert the operator that the cycle has concluded. The buzzer will sound for one minute.
10. Unloading: After completion of a cycle, door(s) will unseal automatically. Pressing the unseal door switch is not required.
11. Put on PPE (heat resistant gloves and face shield).
12. Remove the load when the chamber pressure gauge is at zero psig.
13. After completion of a liquids cycle lower the door approximately one inch from the top for residual steam to escape. After 15 minutes, carefully remove the flasks, taking care not to agitate the liquid.

M/C3522 & M/C3523 GRAVITY/LABORATORY STERILIZERS
Pertinent Information

RECOMMENDED TIME & TEMPERATURE CHART M/C3523 GRAVITY/LABORATORY STERILIZER				
LOAD	CYCLE SELECTOR 	EXPOSURE TEMPERATURE  ALTITUDE: 0-10,000 Feet	MINIMUM EXPOSURE TIME 	MINIMUM EXHAUST (DRYING) TIME  (See Note 1)
<u>LINEN PACKS</u> Wrapped		121°C	00:30 (Minutes)	00:05 (Minutes)
<u>HARD & DRY GOODS</u> Wrapped		135°C	00:10 at 135°C (Minutes)	00:16 (Minutes)
<u>TEMP. SENSITIVE DRY GOODS</u>		121°C	00:30 (Minutes)	No Minimum
<u>INSTRUMENTS & UTENSILS</u>		135°C	00:03 (Minutes)	No Minimum
<u>POROUS ITEMS</u> Unwrapped (Flash)		135°C	00:10 (Minutes)	
LIQUIDS (See Note 2)		121°C	75ml to 250ml 00:15 (Minutes)	No Drying Time can be selected.
			500ml to 1000ml 00:30 (Minutes)	
			1500ml to 2000ml 00:40 (Minutes)	
			5000ml to 4000ml 00:50 (Minutes)	
<u>MILK PRODUCTS & SUBSTITUTES</u> Terminal Heating	 (See Note 2)	110°C	00:10 (Minutes)	No Drying Time can be selected.
Media Processed Below 100°C	 (See Note 2)	76°-99°C	As required	No Drying Time can be selected.
NOTE 1: Exhaust (Drying) Times recommended are MINIMAL TIMES based on actual tests of loads under controlled conditions. Acceptable drying times may vary depending on wrapping techniques, services, and maintenance of equipment.				
NOTE 2: LIQUID CYCLE — The exposure timer does not start until the chamber temperature has been at its set point for several minutes.				
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Daily Autoclave Use Log

Small M/C 3523[illegible]